Contents Volume 44 (1989)

Vol. 44, No. 1 (June 1, 1989)

Special Issue on Membrane Processes for Blood Treatment

Guest Editorial 1
Membrane phenomena and mass transfer kinetics in peritoneal dialysis
M.J. Lysaght and P.C. Farrell (Kensington, N.S.W., Australia) 5
Controlling factors in hemofiltration
W.J. Dorson and J.S. Pierson (Tempe, AZ, U.S.A.) 35
Separation and fractionation of plasma by double-filtration technique
T. Agishi and M. Mineshima (Tokyo, Japan) 47
Membrane plasma separation and the on-line treatment of plasma by membranes
P.S. Malchesky, T. Horiuchi, J.J. Lewandowski and Y. Nosè (Cleveland, OH, U.S.A.) 55
Innovative extracorporeal membrane systems
U.R. Shettigar (Salt Lake City, UT, U.S.A.) 89
Innovative processes for membrane plasma separation
M.Y. Jaffrin (Compiegne, France) 115
Membrane technology applied to donor plasmapheresis
R.R. Stromberg, L.I. Friedman (Rockville, MD, U.S.A.), D.R. Boggs and M.J. Lysaght (Round Lake, IL, U.S.A.) 131
Book Review 145
Meetings Calendar 149

Vol. 44, Nos. 2+3 (June 15, 1989)

Books I've enjoyed *(Editorial)* i
Gas permeation through siloxane–anodic aluminum oxide composite membranes at temperatures up to 200 °C
S. Sugawara, M. Konno and S. Saito (Sendai, Japan) 151
Sorption, diffusion, and pervaporation of organics in polymer membranes
Y.M. Lee, D. Bourgeois and G. Belfort (Troy, NY, U.S.A.) 161
Fouling of unmodified and modified polysulfone ultrafiltration membranes by ovalbumin
M. Nyström (Lappeenranta, Finland) 183
The electric-potential profile in ion-exchange membrane pores
P.N. Pintauro (New Orleans, LA, U.S.A.) and M.W. Verbrugge (Warren, MI, U.S.A.) 197
Hydrochloric acid transport through a trilaurylamine-supported liquid membrane from aqueous lithium chloride media
L.A. Fernández, M.P. Elizalde and J.L. Aparicio (Stockholm, Sweden) 213
Uphill transport of iodide ions through a membrane of poly(vinyl acetate)-iodine–iodide complex
T. Hirai, M. Iijima, T. Miyamura and S. Hayashi (Ueda, Japan) 233
Ultrafiltration of rice wine for removal of bacteria
Wang Shu-Sen, Ling Al-Lian, Wu Ling-Ling and Kang De-Kuan (Beijing, People's Republic of China) 245
Effect of gramicidin on the ion permeability of liposomes in the presence of mixed electrolytes
S. Watanabe, S. Watanabe (Yokohama, Japan) and M. Senō (Tokyo, Japan) 253

Instruction in membrane separation processes
C.S. Slater (Riverdale, NY, U.S.A.) 265
Supported liquid membranes for copper transport
P.A. O'Hara and M.P. Bohrer (Murray Hill, NJ, U.S.A.) 273
Silica membranes by the sol-gel process
A. Larbot, A. Julbe, C. Guizard and L. Cot (Montpellier, France) 289
Unsteady diffusion in barrier membranes *(Short Communication)*
D. Perry (Minneapolis, MN, U.S.A.), W.J. Ward (Schenectady, NY, U.S.A.) and E.L. Cussler (Minneapolis, MN, U.S.A.) 305
Book Review 313
Announcement 314
Meeting Announcements 315
Meetings Calendar 316
Author Index Volume 44 (1989) 318